



ANTH 120 - Biological Anthropology Course Outline

Approval Date: 03/14/2019

Effective Date: 08/14/2020

SECTION A

Unique ID Number CCC000604711

Discipline(s) Anthropology

Division Arts and Humanities

Subject Area Anthropology

Subject Code ANTH

Course Number 120

Course Title Biological Anthropology

TOP Code/SAM Code 2202.00 - Anthropology / E - Non-Occupational

Rationale for adding this course to the curriculum Modifying ANTH 120 and 120-L (Biological Anthropology Laboratory) into one four-unit course.

Units 4

Cross List N/A

Typical Course Weeks 18

Total Instructional Hours

Contact Hours

Lecture 54.00

Lab 54.00

Activity 0.00

Work Experience 0.00

Outside of Class Hours 108.00

Total Contact Hours 108

Total Student Hours 216

Open Entry/Open Exit No

Maximum Enrollment 50

Grading Option Letter Grade or P/NP

Distance Education Mode of On-Campus

Instruction Hybrid

Entirely Online

Online with Proctored Exams

SECTION B

General Education Information:

SECTION C

Course Description

Repeatability May be repeated 0 times

- H. Summarize the principal State and Federal laws that apply to human remains in archaeological discoveries
- I. Classify non-human primate specimens in appropriate taxonomic categories
- J. Assess non-human primate anatomy and behavior
- K. Evaluate observational data gathering techniques related to nonhuman primates
- L. Evaluate the anatomical, evolutionary, and adaptive significance of various hominin species
- M. Assess the links between prehistoric stone tool industries and the biocultural evolution of the genus Homo
- N. Describe bioarchaeology and forensic anthropology as subfields of biological anthropology
- O. Identify the main contributors to the development of evolutionary theory
- P. Evaluate alternate phylogenies for human evolution
- Q.

3. Course Content

LECTURE COURSE CONTENT:

- A. Scientific method and the biocultural perspective
 - a. Fact, hypothesis, theory
 - b. Inductive and deductive approaches
 - c. Data gathering, hypothesis formation, experimentation, replicability
- B. Review of basic principles of cell biology
 - a. Cell biology
 - b. DNA structure
 - c. DNA replication

- G. Non-human primates
 - a. Taxonomy of primates
 - b. Anatomy of non-human primates and patterns of locomotion
 - c. Behavior of non-human primates
 - d. Observational techniques for behavior of non-human primates
- H. Hominins and the fossil record
 - a. Processes of preservation
 - b. Dating techniques
 - c. Morphological and cultural evolutionary trends of hominins
 - d. Morphology, culture and location of various hominin fossils including:
 - a. Sahelanthropus
 - b. Orrorin
 - c. Ardipithecus
 - d. gracile and robust Australopithecines
 - e. Paranthropus
 - f. Kenyanthropus
 - g. Neanderthalensis and early Homo
 - e. Stone tool industries and techniques (Oldowan, Acheulian, Lavallois, etc.)

LABORATORY COURSE CONTENT:

- A. Genetics and Evolution
 - a. The Scientific Method
 - b. Cell Biology and DNA
 - c. Principles of Inheritance
 - d. Human Variation
 - e. Hardy-Weinberg: Population Genetics
 - f. Performing metric conversions, genotype/phenotype ratios
- B. The Human Skeleton
 - a. Introduction to the Human Skeleton
 - b. The Appendicular Skeleton
 - c. The Axial Skeleton
 - d. Human Variation, Anthropometry, and Forensic Anthropology
- C. The Non-Human Primates
 - a. Primate Classification
 - b. Comparative Primate Anatomy
 - c. Primate Behavior
- D. Human Ancestors
 - a. The Bipedal Adaptation and Our Earliest Ancestors
 - b. The Rise of the Genus Homo
 - c. Later Homo and Modern Human Origins
 - d.

Individualized Instruction: Supplemental Instruction (if available), focused work during office hours, for example.

Lab:

Lecture:

Mediated Learning:

Observation and Demonstration:

Projects: Special projects may be offered to students.

Visiting Lecturers:

Other: The lecture content may be delivered through Canvas using the E-

2. Read pages 136-149 of Chapter Nine, paying specific attention to the geographic location of major australopithecine fossil sites.

B. Writing Assignments

Writing assignments may include case study analysis, research reports on ethical issues in biological anthropology, and summaries of

Publisher: Morton Publishing (ISBN 9781617314032)

Date of Publication: 01-01-2017

Manual #2:

Author: Soluri, K., Agarwal, S.

Title: Laboratory Manual and Workbook for Biological Anthropology

Publisher: W.W. Norton and Company, Inc. (ISBN 9780393912913)

Date of Publication: 01-01-2015

Software #1:

Title: MyAnthroLab for Biological Anthropology

Publisher: Pearson

Edition: 2013

B. Other required materials/supplies.

Equivalent Open Educational Resource (such as those supported by the Community